

B42

? S PN=DE 4335025
S15 1 PN=DE 4335025
? T 15/3,AB/1

15/3,AB/1

DIALOG(R)File 351:Derwent WPI
(c) 2003 Thomson Derwent. All rts. reserv.

010254819

WPI Acc No: 1995-156074/*199521*

XRAM Acc No: C95-071925

Virus-like endosomolytically active particle - made of capsid protein virus units and being modified by membrane active peptide sequences, useful in nucleic acid transfer.

Patent Assignee: BOEHRINGER INGELHEIM INT GMBH (BOEH)

Inventor: CHIOCCA S; COTTEN M; SCHAFFNER G; WAGNER E

Number of Countries: 022 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4335025	A1	19950420	DE 4335025	A	19931014	199521 B
WO 9510624	A1	19950420	WO 94EP3313	A	19941007	199521
AU 9478120	A	19950504	AU 9478120	A	19941007	199536
EP 724643	A1	19960807	EP 94928873	A	19941007	199636
			WO 94EP3313	A	19941007	
JP 9503665	W	19970415	WO 94EP3313	A	19941007	199725
			JP 95511255	A	19941007	
AU 681705	B	19970904	AU 9478120	A	19941007	199744
US 5789230	A	19980804	WO 94EP3313	A	19941007	199838
			US 96628665	A	19960412	
MX 192526	B	19990701	MX 947919	A	19941013	200061

Priority Applications (No Type Date): DE 4335025 A 19931014

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

DE 4335025 A1 23 C07K-014/005

WO 9510624 A1 G 57 C12N-015/87

Designated States (National): AU CA JP US

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

AU 9478120 A C12N-015/87 Based on patent WO 9510624

EP 724643 A1 G C12N-015/87 Based on patent WO 9510624

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

JP 9503665 W 45 C12N-015/09 Based on patent WO 9510624

AU 681705 B C12N-015/87 Previous Publ. patent AU 9478120

Based on patent WO 9510624

US 5789230 A C12N-007/00 Based on patent WO 9510624

MX 192526 B C12N-007/004

Abstract (Basic): DE 4335025 A

A virus-like endosomolytically active particle consisting of units of capsid proteins derived from a virus or virus-like parts and being modified by a membrane-active peptide sequence. Pref. the particle is either a modified Ty-particle consisting of TyA-protein units modified by a membrane active peptide sequence or a modified MS2-particle built from units of the MS2 capsid protein and having the membrane active peptide inserted in the beta-hairpin region between amino acids 11 and

17 of the MS2 capsid proteins. Also claimed is a method for the prodn. of the above particle.

USE - A compsn. contg. an endosomolytically active virus-like particle, pref. a transferrin-polylysine conjugate, is used for the transport of nucleic acids into higher eukaryotic cells (claimed).

ADVANTAGE - Gene transfer via endocytosis has the advantage of a non-toxic passage through the cell membrane, the admin. of a biologically active nucleic acid, specific cell targeting and the prodn. of large amts. of cell conjugates. The new gene transfer system has a high expression rate while minimising safety risks.

Dwg.1/4